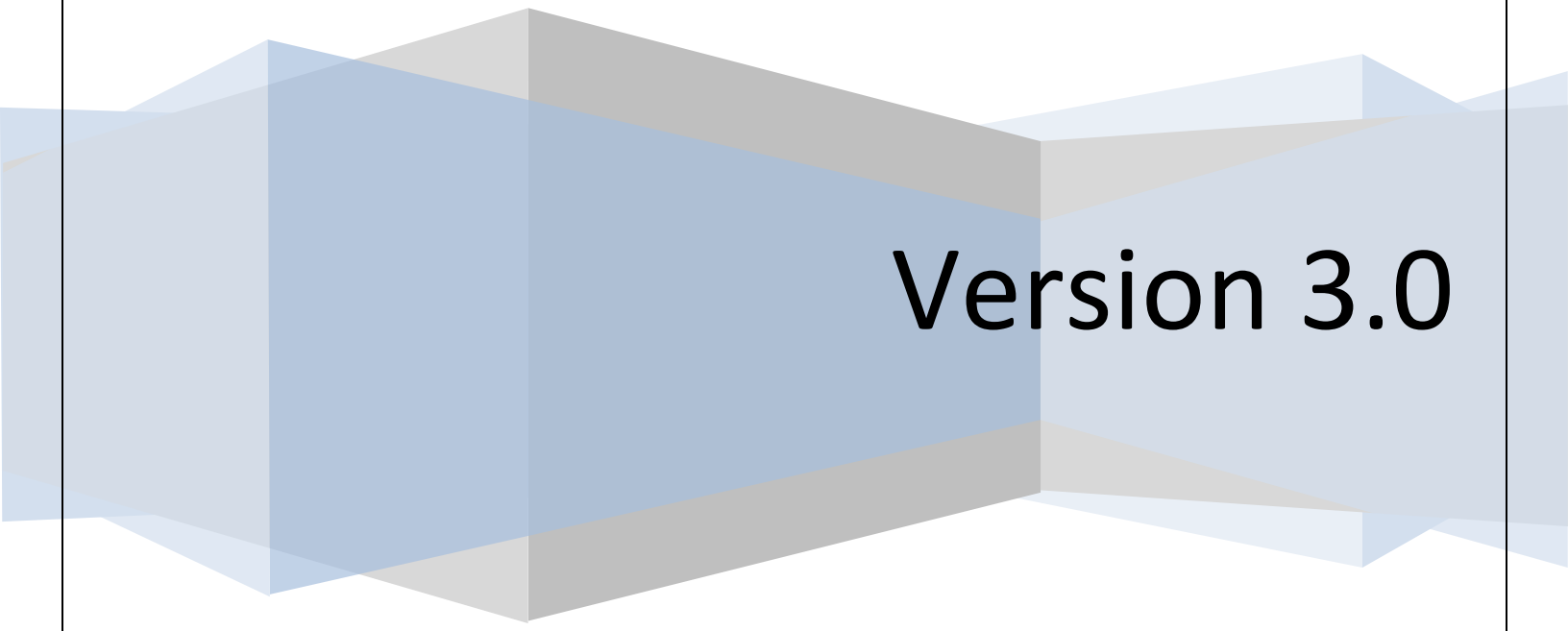
AMI

www.controlami.com
User Guide and
Programming Manual



Version 3.0

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Introduction

Welcome to the cloud! Our website allows you to program and operate your controllers as well as retrieve real time information from your irrigation system from any computer or device with internet access. This user guide will show you how to setup, program and retrieve information from your devices through our web interface.

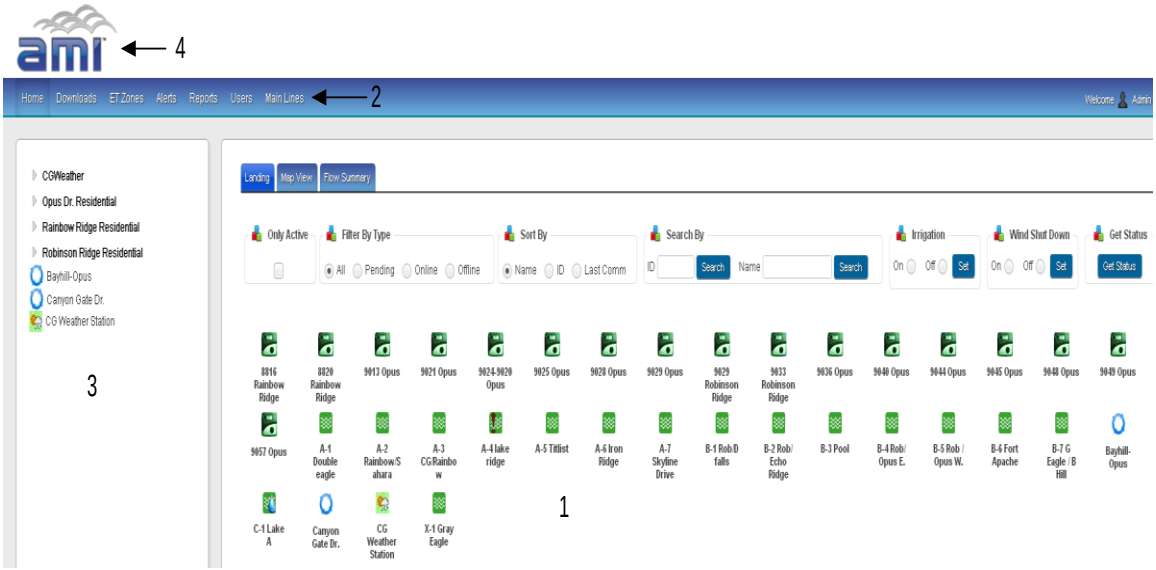
Logging In

To log into our user website, go to www.controlami.com. Enter your username and password provided by AMI. If you have not received a username and password, please contact us at support@aquamanagement.com to request it from us.

Section 1: Home Screen

The Home Screen provides you access to all of your controllers and accounts. There are four main components of the main screen:

1 - The Main Screen (1.1)
2 - The Master Control Bar (1.2)
3 - The Account View (1.3)
4 - The Home Button (1.4)



1.1Main Screen

The Main Screen of our interface is where you make changes to your controller's programs. The default screen, or Home Screen, displays all of the controllers, weather stations, data loggers you have on your system. Click the Home Button (#4) to get back to the Home Screen from any screen at any time.

Sort By

Change the way the icons are displayed on the main screen by sorting your controllers: Numerically by ID; Alphabetically by Name; or by Last Communication update. You can also filter by online/offline status.

To change views, click ◉ to the right of your selection choice. The default setting sorts all controllers regardless of online status by Name.

You can also Search by controller ID or controller Name

1.2 Master Control Bar

The Master Control Bar features are covered in Section 2.

1.3 Account View

The Account View section is a Hierarchal view of your controllers, weather stations and data loggers grouped by account. You can expand and collapse the ladder and select devices by clicking on its icon.

1.4 Home Button

Clicking the Home Button from any screen brings you back to the default or Home Screen.

Section 2: Master Control Options

There are many setup features from the Master Control Bar. In this section, we will focus on the basic features necessary for initial setup. Section 8 will cover advanced setup options.

2.1 Setting up Accounts

Creating accounts allow you to organize your controllers based on different properties, or companies or users. Created accounts are displayed on the Account View portion of the screen in Alphabetical order and the accounts can be expanded and contracted.

!Note! ***Accounts can only be set up from the Dealer level log in.***

To create a new account:

1. Click Accounts on the Master Control Bar (a new screen will open up on the Main Screen)
2. Click New
3. Create an Account Name
4. Assign the account a Description, Last name, E-mail address, Phone number, Fax number, and Address (optional)
5. Add Controllers:
    a. Scroll up and down the Controllers list by using the scroll bar
    b. Click on desired controller
    c. Click >Add
    d. Repeat a-c for each controller you want assigned to the account
6. Click Save

To delete an Account:

1. Click on the account you want to permanently delete
2. Click Delete

2.2 Creating Users

You can create different users for each employee or customer you want to have access to our control features. When you create a user profile, you define how much access and control they have while logged in.

To create a new User:

1. Click on Users on the Master Control Bar (a new screen will open up on the Main Screen)
2. Click New
3. Create a Login name
4. Create a user Password and confirm the Password
5. Assign the User a First and Last name (optional)
6. Assign the User a primary Email address (to receive alerts)
7. Assign a secondary email address (contact support for assistance in setting up text messages)
8. Assign a Phone #,Fax # and add additional Comments (optional)
9. Select Approval Date by clicking ... and selecting the date from the calendar
10. Select the Access Level (semi restricted)
11. Enable or disable features available by selecting or deselecting the ☐ behind option
12. Click Save
13. Repeat steps 3-12 for each User you create

Update or Change Password

To update or change a password at any time, repeat steps 1 and 4.

2.3 Creating Alerts

Before you can assign alerts to your controller you must create the alert from the Alerts tab on the Master Control Bar.

To create an Alert for your controller:

1. Click Alerts on the Master Control Bar (a new screen will open up on the Main Screen)
2. Click the device tab on the Main Screen (i.e. iologic Alerts, TMC Alerts, etc…)
3. Click New
4. Create a Name for the alert
5. Assign an alert Type by using the ⌄ button
6. Assign an alert Trigger by using the ⌄ button (by station or all)
7. Input the Text you want to receive via text message or email
8. Assign Users to receive the message (review Section 2.2) by clicking the ☐ in front of their name and the ☐ under the appropriate Email
9. Click Save
10. Repeat steps 3-9 for each alert you create

!Hint! ***You can select from a list of Templates and customize the alert.***

!Note! ***You will need to perform a manual download after you have finished creating your alerts.***

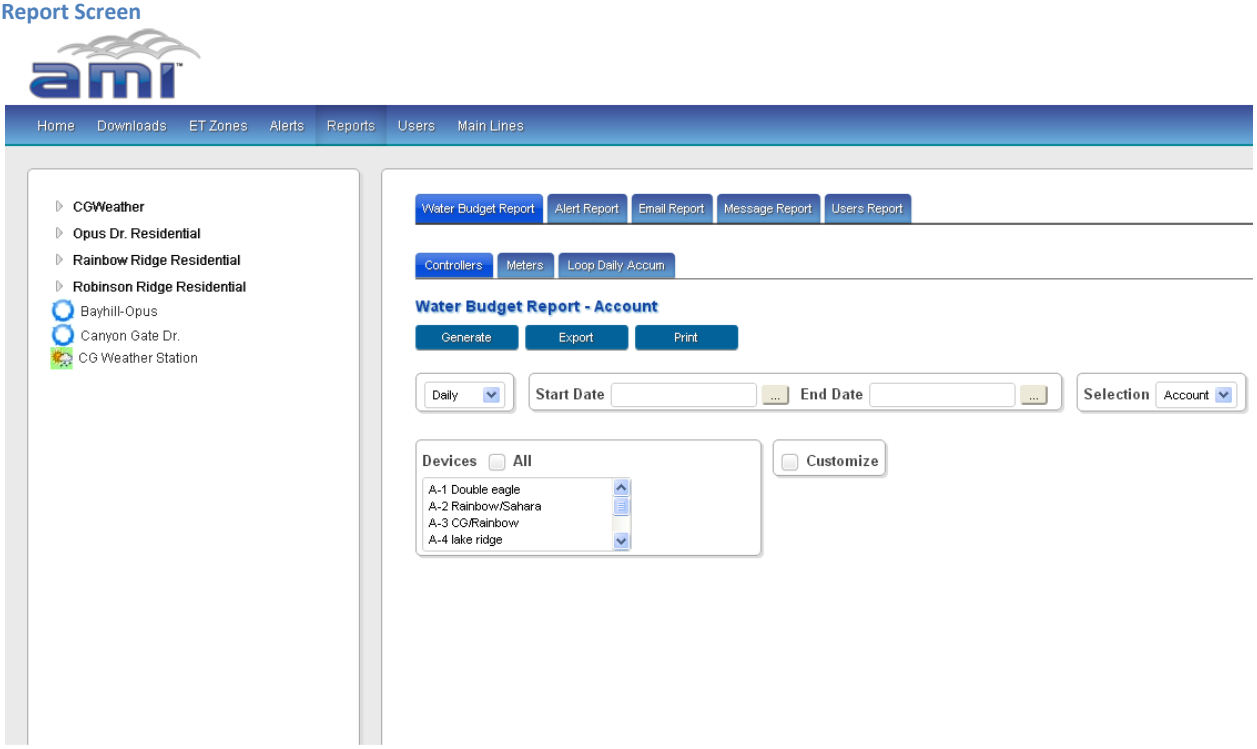
Review Section 2.5 for more information.

2.4 Reports

You can generate and export multiple reports from our user interface including:

- Water Budget Report (Flowmeter required)
- Alert Report
- Email Report
- Message Report
- Users Report

Report Screen



Generating a Report

To generate a report:

1. From the Master Control Bar, click Reports
2. A new screen will appear in the Main Screen
3. Click the tab for the alert you want to run (i.e. Water Budget Report, Alert Report, etc…)
4. Select the Account you want to run the report for by clicking on the tab
5. Select Daily, Weekly, Monthly or Annually by clicking on the tab
6. Assign a start date by clicking in the Start Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
7. Assign an end date by clicking in the End Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
8. Select the device by clicking on the Controller, or click the All tab to select all controllers
9. Click Generate to display the information
10. Repeat steps 3-9 for each report you would like to run

Exporting a Report

!Note! ***Exporting reports generates a new screen from icontrolport.com. Please review your browser's settings to allow popups from this site.***

To export a report to an excel file:

1. From the Master Control Bar, click Reports
2. A new screen will appear in the Main Screen
3. Click the tab for the alert you want to run (i.e. Water Budget Report, Alert Report, etc…)
4. Select Daily, Weekly, Monthly or Annually by clicking on the tab
5. Assign a start date by clicking in the Start Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
6. Assign an end date by clicking in the End Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
7. Select the device by clicking on the Controller, or click the All tab to select all controllers
8. Click Export
9. A new window will appear, depending on browser
10. Repeat steps 3-9 for each report you would like to export

Printing a Report

!Note! ***Printing reports generates a new screen from icontrolport.com. Please review your browser's settings to allow popups from this site.***

To print a report to an excel file:

1. From the Master Control Bar, click Reports
2. A new screen will appear in the Main Screen
3. Click the tab for the alert you want to run (i.e. Water Budget Report, Alert Report, etc…)
4. Select Daily, Weekly, Monthly or Annually by clicking on the tab
5. Assign a start date by clicking in the Start Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
6. Assign an end date by clicking in the End Date box and entering the date (mm/dd/yyy) or clicking the tab and selecting date from the Calendar
7. Select the device by clicking on the Controller, or click the All tab to select all controllers
8. Click Generate
9. Click Print
10. A new window will appear, depending on browser, follow directions to print
11. Repeat steps 3-10 for each report you would like to export

2.5 Logging Out

The Logout button is located on the Master Control Bar. Click the button to log out.

Section 3: Downloading and Download Xchange

To download any changes made to your Irrigation Controllers:

1. Click the

button on the Master Control Bar
2. Click the ☐ button next to the download(s) you want to push through
3. Click Download located at the bottom of the Downloads screen

To remove a download from the list:

1. Click the Downloads button on the Master Control Bar
2. Click the XChange button (a new tab will open to the side)
3. Click the ☐ button next to the download(s) you want to remove
4. Click the Apply button

!Note! ***Using the XChange will erase the download and should only be used if you do not want to make the change(s).***

Section 4: Icon Legend

AquaControl Online

AquaControl Offline

AquaControl Online – Pending Download

AquaControl Offline – Pending Download

AquaConnect Online

AquaConnect Online – Pending Download

AquaConnect Offline

AquaConnect Offline – Pending Download

AQR Online

AQR Online – Pending Download

AQR Offline

AQR Offline – Pending Download

AquaControl Online – Alert Notification

AquaControl Offline – Alert Notification

AquaControl Online – Irrigation Reminder

AquaControl Offline – Irrigation Reminder

AquaConnect Online – Irrigation Reminder

AQR Online – Irrigation Reminder

Wheather Station Online

Wheather Station Offline

Wheather Station Online – Rain Event

Section 5: Controller Setup and Programming

To setup your controller and schedule or edit irrigation schedules, first click on the controller icon from either the Account View screen or the Home Screen. This will bring the controller information onto the Main Screen.

5.1 Controller Setup

Click on the Parameters tab.

!Note! ***Advanced features and options are discussed in Sections 6-10***

From the Parameters Screen, you can:

- Change the Name of your controller
- Label individual stations on the controller

Changing Name

To change the name of your controller, from the Parameters screen:

1. Click the Config tab
2. Click the box next to Name
3. Erase the old information by highlighting and pressing Delete on your keyboard
4. Enter a new name
5. Click Save

Labeling Individual Stations

To label your controller's stations, for reference only, from the Parameters screen:

1. Click the Descriptions tab
2. Click on the box next to the station you want to label
3. Input the desired name
4. Repeat steps 2 & 3 for each station you want to label
5. Click Save

5.2 Irrigation Programming

Our system allow for up to eight (8) programs to be created and scheduled on each controller, with up to twelve (12) individual start times. You can assign each program a name, assign irrigation days, create conditional starts and conditional suspends.

Click on the Program tab.

From the Program Screen, you can:

- Schedule Programs
- Review Programs
- Review Program Update History

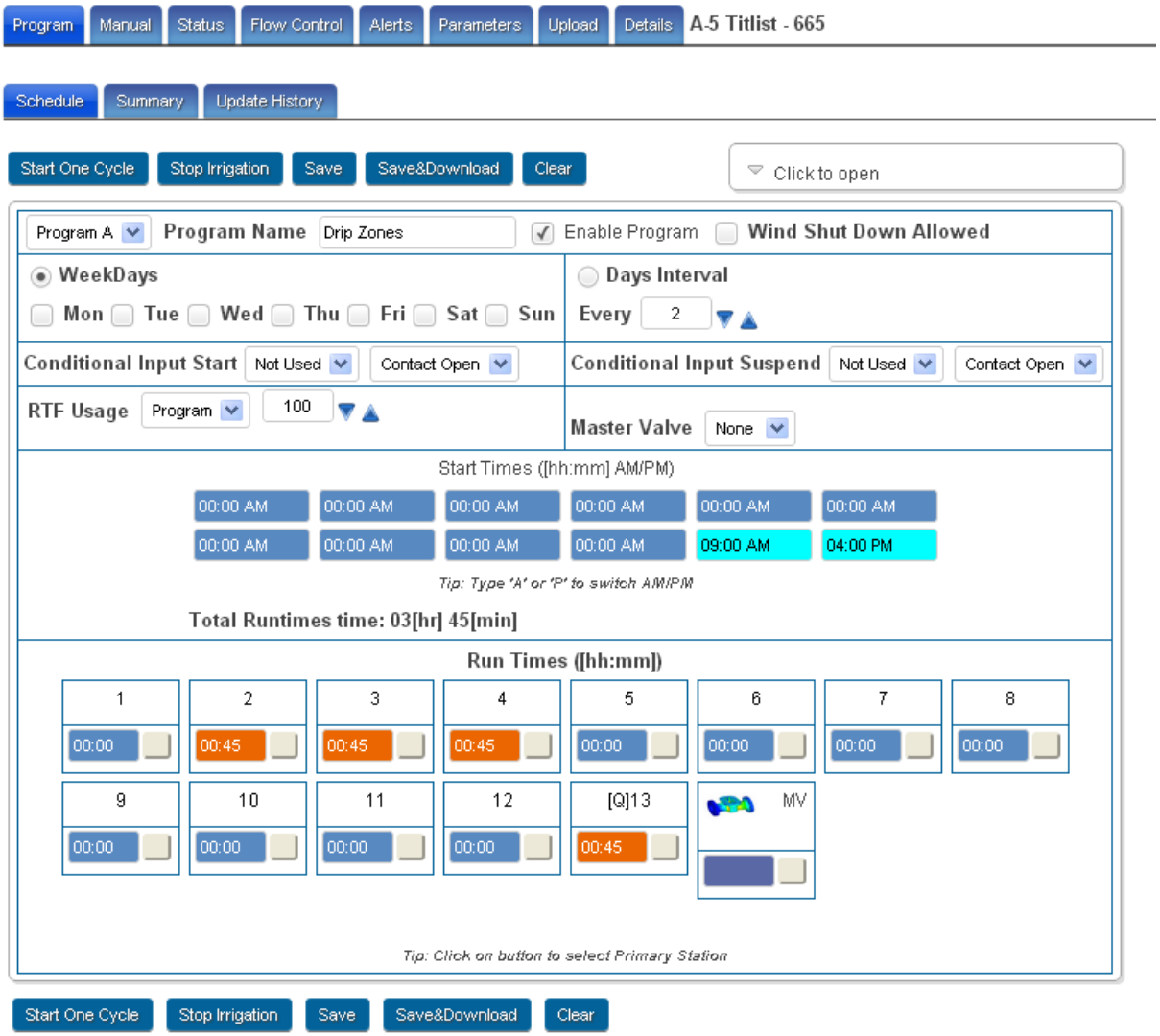
Program Scheduling

To create a program:

1. From the Program Screen, click the Schedule tab
2. Click Program A to select a Program (Program A – Program H)
3. Assign a program name (optional)
4. Select between Week Days or Days Interval by clicking
5. Input a Start Time in the 00:00 AM (from your keyboard, click "A" for AM, "P" for PM)
6. Assign station Run Times
7. Click Save or Save&Download
8. Repeat steps 2-6 for each program you want to create

!Note! ***Clicking*** Save ***will require a manual download. Review Section 3 to review.***

Program Schedule Screen



Program Summary

You can review all of your scheduled programs by clicking on the Summary tab.

Program Summary Screen

Program
Manual
Status
Flow Control
Alerts
Parameters
Upload
Details
B-3 Pool - 668
Schedule
Summary
Update History
Print
Click to open
Controller B-3 Pool 668
A. Lawn
Valves
Weekdays Mon Tue Wed Thu Fri Sat Sun
Enabled
Start Time 1 2 3 4 5 6 7 8 9 10 11 12
00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 09:00 AM 12:05 PM 03:00 PM
Runtime 1 2 3 4 5 6 7 8 9 10 11 12
00:04 00:04 00:04 MV
Runtimes Total 00:12
B. Drip Zones
Weekdays Mon Tue Wed Thu Fri Sat Sun
Enabled
Start Time 1 2 3 4 5 6 7 8 9 10 11 12
00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 08:30 AM 03:30 PM
Runtime 1 2 3 4 5 6 7 8 9 10 11 12
00:10 00:45 00:45 MV
Runtimes Total 01:40
F. Syringe
Lawn
Weekdays Mon Tue Wed Thu Fri Sat Sun
Enabled
Start Time 1 2 3 4 5 6 7 8 9 10 11 12
00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM 00:00 AM
Runtime 1 2 3 4 5 6 7 8 9 10 11 12
00:02 00:02 00:02 MV
Runtimes Total 00:06

Seasonal Templates

You can save programs to be loaded as Seasonal Templates.

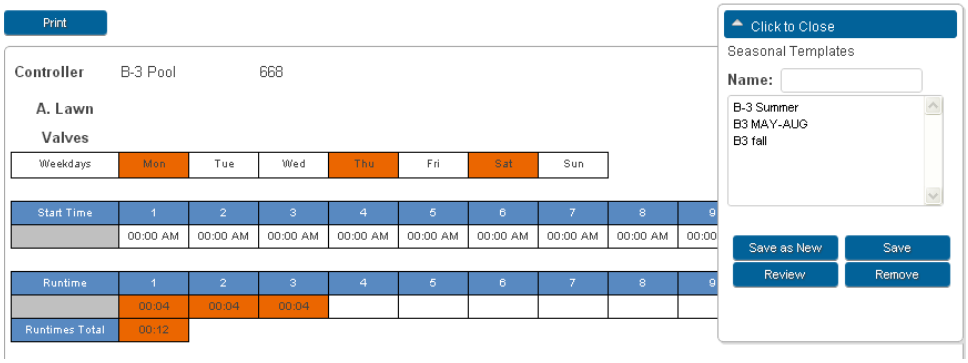
To create a Seasonal Template, from the Program/Summary tab:

1. Click Click to open on the right side of the screen
2. Assign the template a name
3. Click Save as New

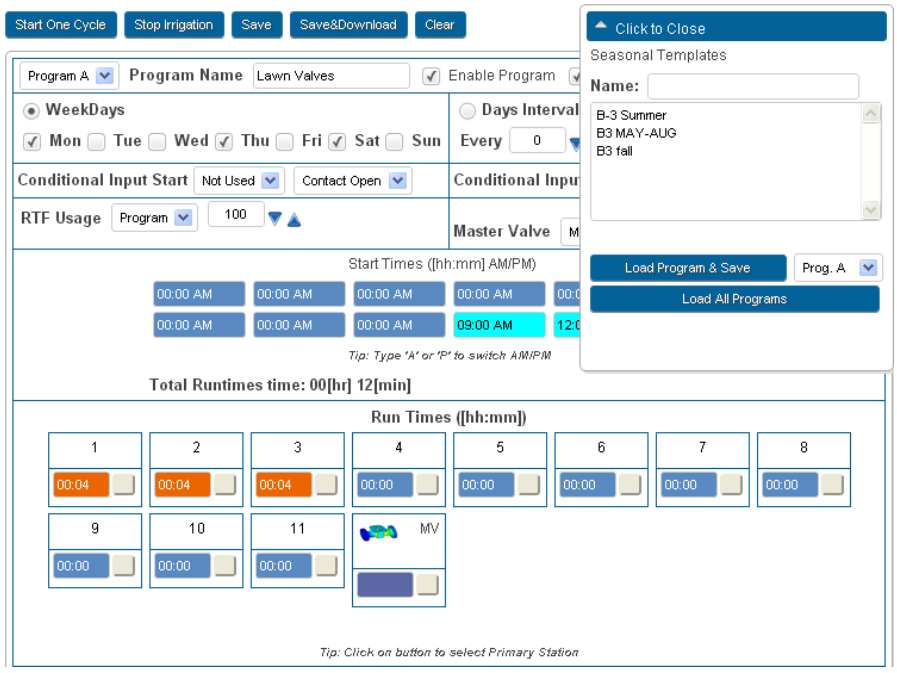
To load a Seasonal Template, from the Program/Schedule tab:

1. Click Click to open on the right side of the screen
2. Click on the Template you want to load
3. Click Load Program & Save to select individual programs Prog. A
4. Click Load All Programs to load all programs from the template

Create Seasonal Template Screen



Load Seasonal Template Screen



Update History

Update History displays all update information. From the calendar, highlighted days indicate changes were made. Clicking on the day displays the program as it looked on that day after the changes.

5.3 Manual Operation of Stations and Programs

Station Starting/Stopping/Stop All

From the Manual Screen:

To manually start a station

1. Set the desired runtime in the Runtime box [HH:MM]
2. Click ☐ under each station you want to run (simultaneous only)
3. Click Save

To manually stop a station

1. Click ☐ under each station you want to stop
2. Click Stop

To manually stop all stations

1. Click Stop All

Program Start/Stop

From the Program/Schedule Screen:

To Start Program Irrigation

1. Select the Program you want to run a manual cycle using Program A
2. Click Start One Cycle
3. Repeat steps 1 & 2 for each Program you want to manually start irrigation

To Stop Program Irrigation

1. Select the Program you want to run a manual cycle using Program A
2. Click Stop Irrigation
3. Repeat steps 1 & 2 for each Program you want to manually stop irrigation

5.4 Current Status

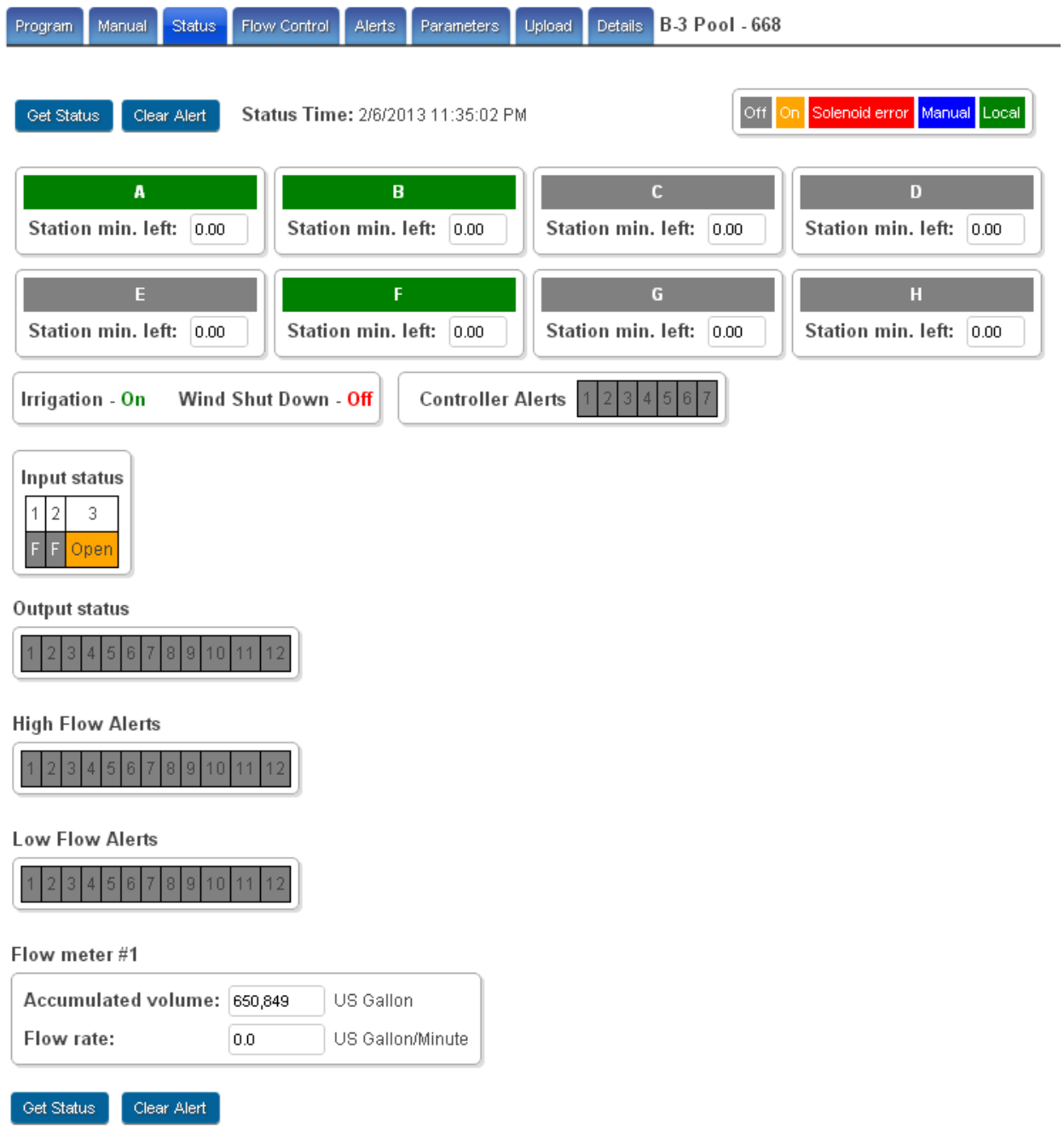
The Controller Status screen gives you information on:

- Active Programs
- Station Output Status
- Controller Input Status
- Controller Alerts
- High Flow Alerts (Flowmeter required)
- Low Flow Alerts (Flowmeter required)
- Flowmeter readings (Flowmeter required)

!Note! ***Information displayed is not a live feed. Get current status by clicking***. Get Status

The last status update is displayed as Status Time: 2/6/2013 11:35:02 PM

Status Screen



Status Legend

Information on the Status page is color coded. The legend is located on the top right side of the screen.

Controller Alerts

Controller alerts are assigned a numeric value (1-7). When a controller alert is registered, the corresponding number will turn orange (On). You can scroll over the highlighted number to identify the error.

1 – Reset Alert
2 – Configuration Error
3 – Arm Slave Error
4 – No Flow (Flowmeter required)
5 – Leak (Flowmeter required)
6 – Max Stations Limit
7 – I/O Logic Communication Error

Clearing Alerts

Alerts need to be cleared after each occurrence before they will regenerate with the next event.

To clear all alerts on a controller, click Clear Alert located at the bottom of the screen.

5.5 Assigning Alerts to Individual Controllers

!Note! ***Alerts must be created before you can assign them to individual controllers. Please review Section 2.2 to create Alerts.***

Alerts Screen

Attached	Name	Trigger	Output#	Text
☐	723 reset	Controller Reset		723 reset
☑	No Flow	No Flow Detection		No Flow
☐	RESET CG	Controller Reset		Reset CG
☐	IO Logic	ioLogic Comm. Err	All	IOLogic Error CG
☑	Short	Station Short	All	Short CG
☑	Leak Detection	Leak Detection		Leak CG
☑	Station no flow	Low Flow	All	Station No Flow
☐	station on	Station ON	13	Station 13(5) on

Save

To assign alerts to your controller:

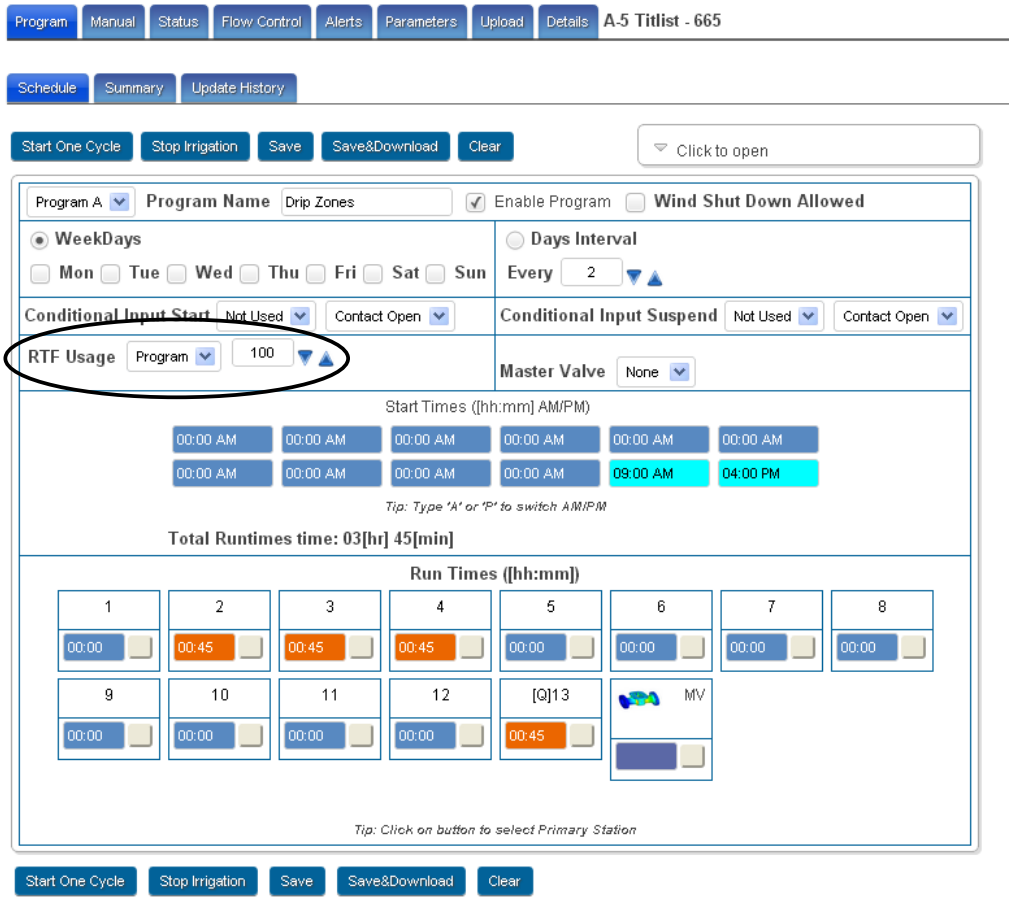
1. Click Alerts on the Main Screen
2. Click on the ☐ next to each alert you want to assign to the controller
3. Click Save

!Note! ***You will need to download the setting. Review Section 2.1.***

Section 6 RTF Usage

Run Time Function allows the user to make mass changes to multiple controllers/programs quickly. Each program must be assigned to a RTF Usage.

RTF Usage Location



There are four different RTF choices:

- System
- ET Zone
- Unit
- Program

6.1 System RTF

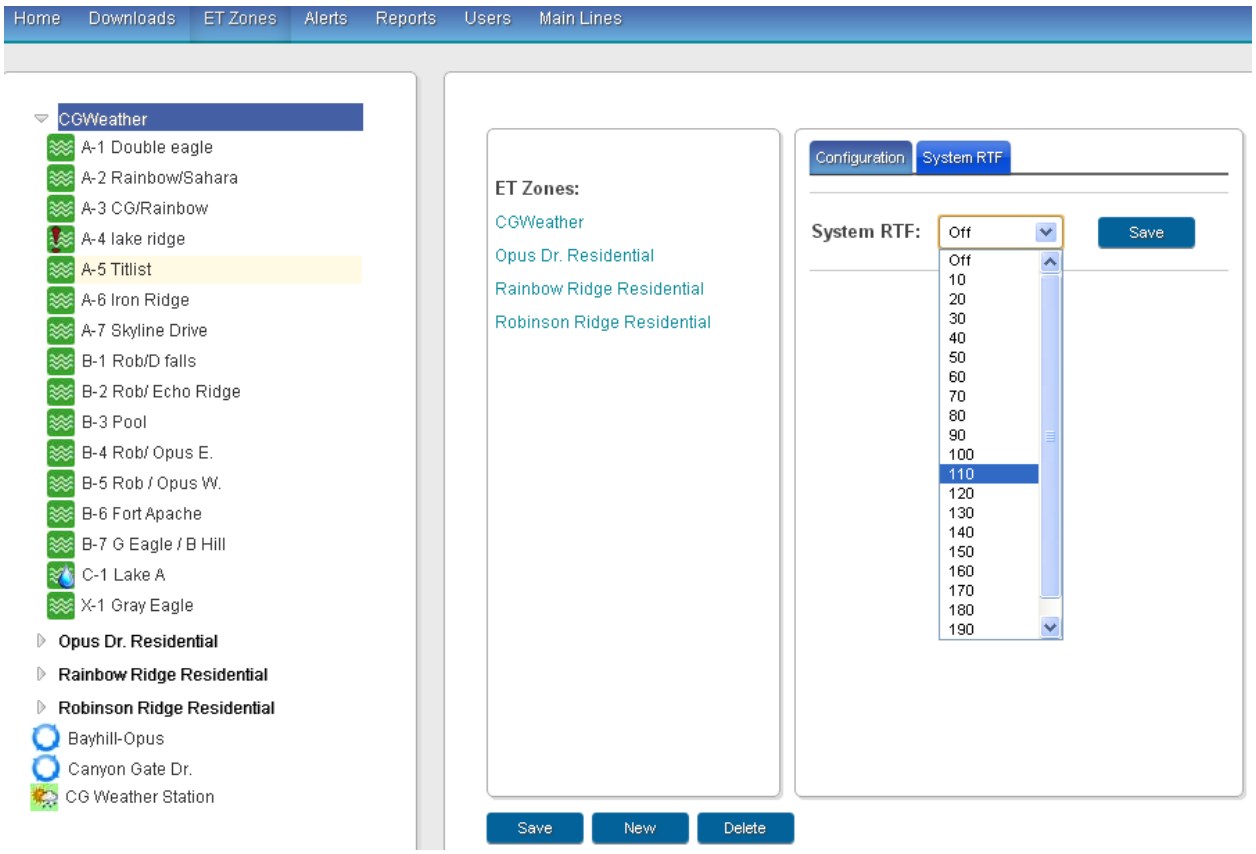
System RTF will change every assigned program percentage in 10% increments as directed by the user.

After selecting which programs you would like to control in the manner, to adjust your System RTF:

1. Click ET Zones on the Master Control Bar
2. Click System RTF
3. Adjust percentage (see Figure 6.1)
4. Click Save

This changes EVERY PROGRAM that is assigned to System RTF and will remain at this percentage until the user changes it again.

Figure 6.1



6.2 ET Zone RTF

All programs that are assigned to ET Zone are automatically updated daily using a connected weather station. Please review how to set up an ET Zone in the Advanced Manual if required.

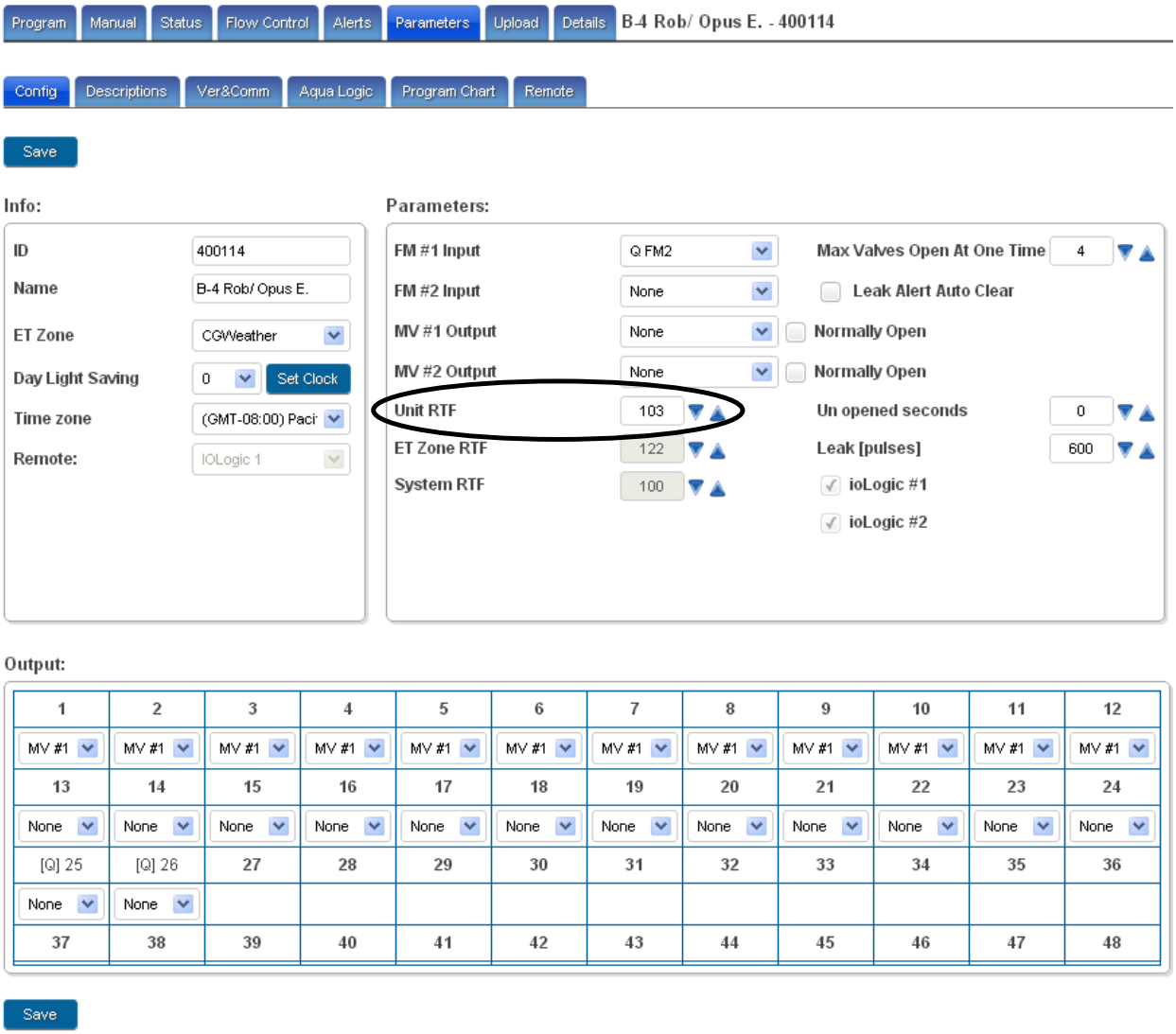
6.3 Unit RTF

You can manipulate multiple run times on each unit by using the Unit RTF.

After selecting which programs you would like to control in the manner, to adjust your Unit RTF:

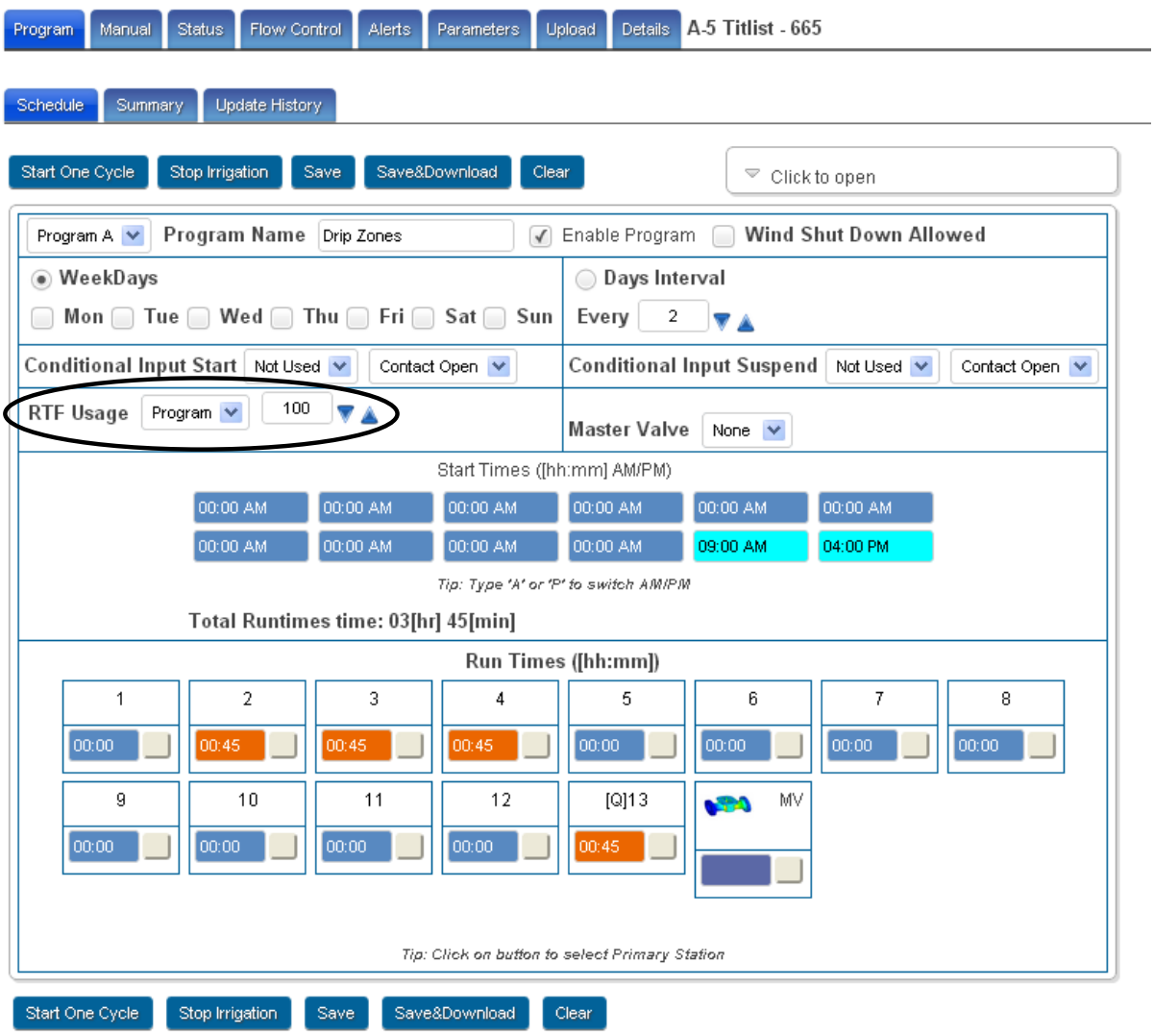
1. Click on the Parameters then Config tabs
2. Use the up and down arrows behind Unit RTF to adjust percentages (see figure 6.3)
3. Click Save

Figure 6.3



6.4 Program RTF

Using Program RTF will only change the run times of that program.



Section 7 Multiple Controller Commands

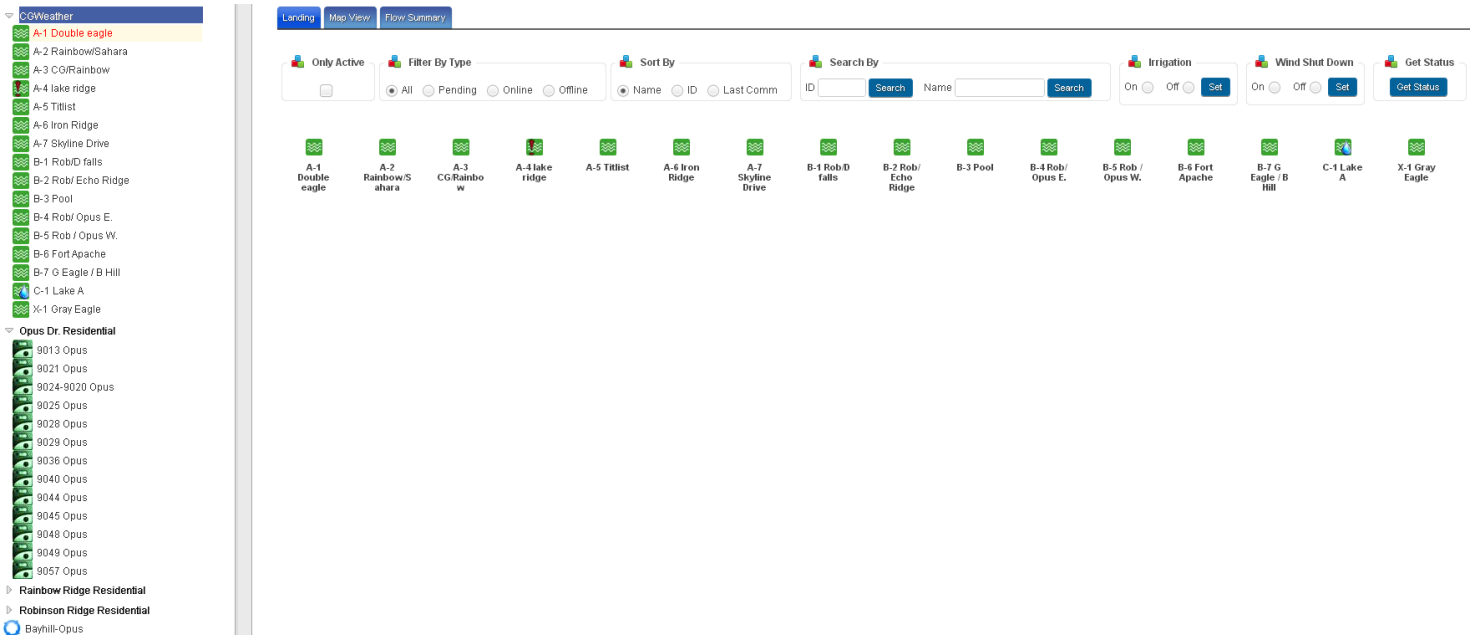
Much like you can make mass station run time changes across multiple controllers, you can also perform other commands across all the controllers in each account by selective selection such as:

- Get Status
- Flow Summary
- Rain Shut Down
- Wind Shut Down

7.1 Selective Selection

If your account has multiple controllers, organized in multiple Accounts (Dealer Level) and/or ET Zones (Account Level), you can select only the controllers in a wanted area to be displayed and controlled in the Main Screen.

To do this, on the Account View section of the screen, click on the Account or ET Zone you want to select



7.2 Get Status

Because the information from the controllers is only uploaded once or twice per day, it is recommended to "Get Status" each time you log in to get the most current information regarding your system.

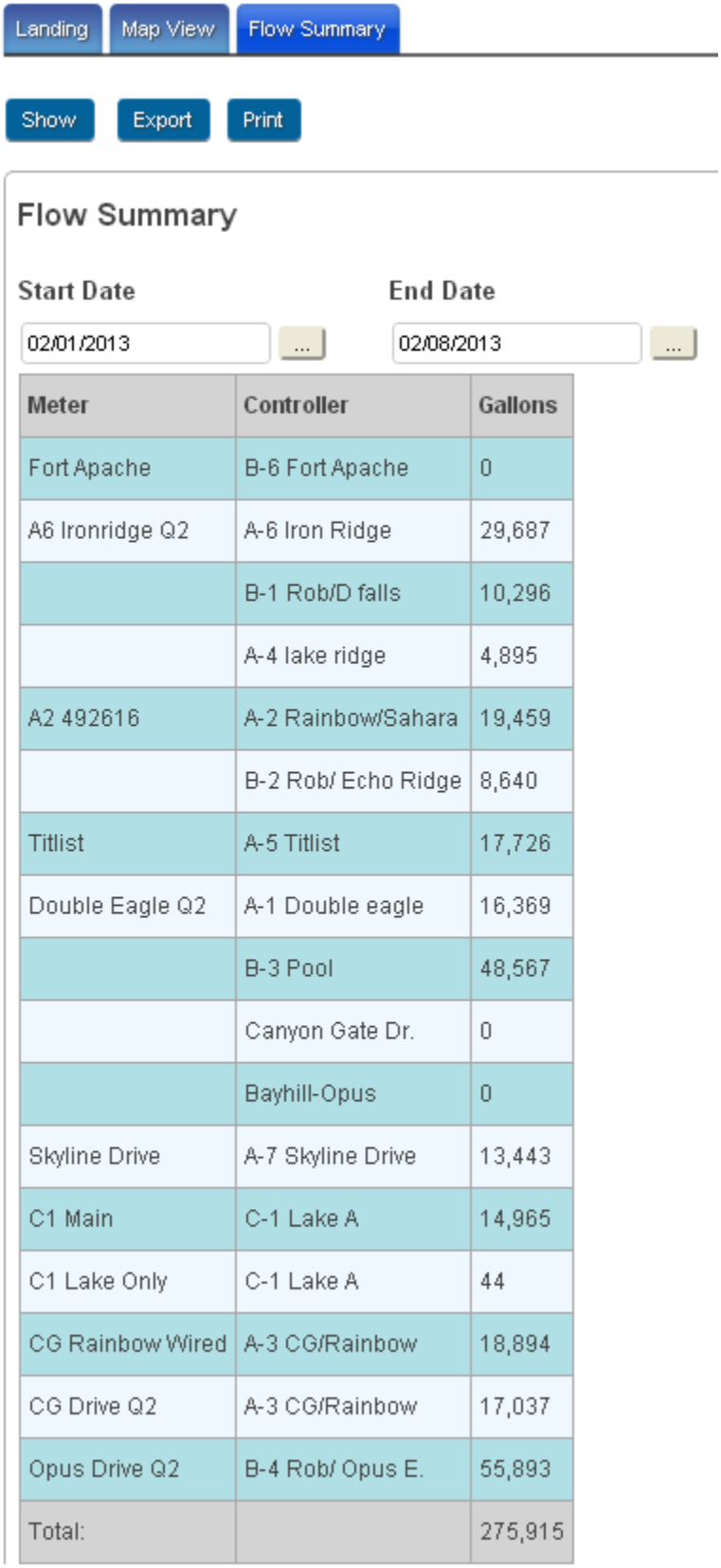
You can get status en mass using the Get Status button on the main screen. You can do this for all of the controllers in your login level, or isolate by Account (Dealer Level) or ET Zone (Account Level). Review Section 7.1 if necessary.

When you click Get Status, each controller in the main screen will be updated.

7.3 Flow Summary

The Flow Summary tab will give you a quick water usage report for each flow meter attached to the system. You can set the Start and End Date to run a customized report as well as Export the report into an Excel sheet or print it.

Flow Report Example



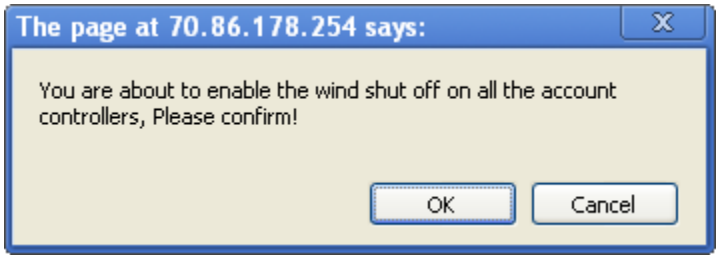
Meter	Controller	Gallons
Fort Apache	B-6 Fort Apache	0
A6 Ironridge Q2	A-6 Iron Ridge	29,687
	B-1 Rob/D falls	10,296
	A-4 lake ridge	4,895
A2 492616	A-2 Rainbow/Sahara	19,459
	B-2 Rob/ Echo Ridge	8,640
Titlist	A-5 Titlist	17,726
Double Eagle Q2	A-1 Double eagle	16,369
	B-3 Pool	48,567
	Canyon Gate Dr.	0
	Bayhill-Opus	0
Skyline Drive	A-7 Skyline Drive	13,443
C1 Main	C-1 Lake A	14,965
C1 Lake Only	C-1 Lake A	44
CG Rainbow Wired	A-3 CG/Rainbow	18,894
CG Drive Q2	A-3 CG/Rainbow	17,037
Opus Drive Q2	B-4 Rob/ Opus E.	55,893
Total:		275,915

7.4 Rain Shut Down

To disable all programs on multiple controllers:

1. Choose which group of controllers you want to shut the irrigation off on
    a. This can be done on all the controllers on the system, by account or by ET Zone
    b. Review section 7.1 if necessary
2. At the top of the main screen, select

, then click

3. 
The page at 70.86.178.254 says:
You are about to enable the wind shut off on all the account controllers, Please confirm!
OK
Cancel
4. Click OK
5. Click

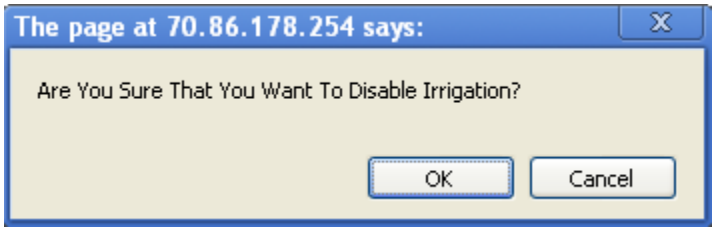
to confirm all irrigation is disabled (Review Section 4 if necessary)

To enable irrigation on all multiple controllers, follow the same steps, but do the opposite commands.

You can also disable irrigation on individual controllers.

1. Click on the controller icon
2. Click the

tab
3. Click

4. 

5. Click OK

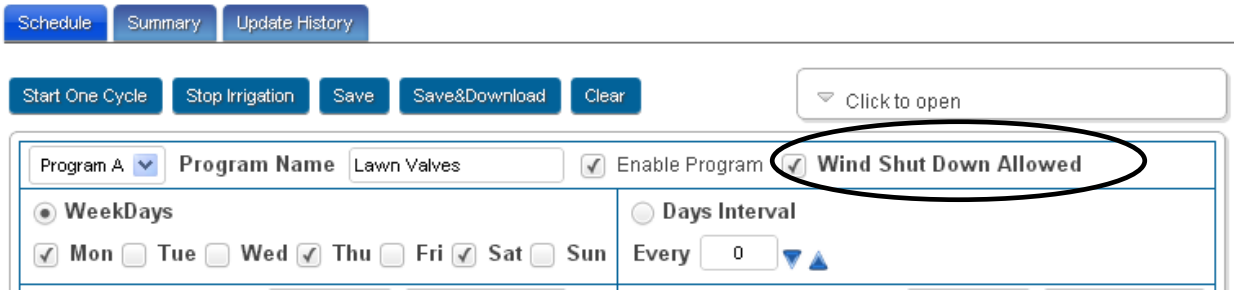
To enable irrigation on individual controllers, follow the same steps but do the opposite commands.

7.5 Wind Shut Down

You can selectively control which Programs you want to shut down during events such as high wind, light rain and/or freezing conditions by utilizing the Wind Shut Down feature. For example, on a windy day, you may want to shut down all spray irrigation nozzles while continuing to irrigate your drip valves. Using the Wind Shut Down control will disable all programs that are assigned to it while continuing to run programs not assigned to it.

To begin, you must define which programs you would like to be controlled by the Wind Shut Down feature.

1. Click on a controller icon
2. Click on the Program tab
3. Choose which Program you wish to define using the Program A pull down
4. Check the box next to "Wind Shut Down Allowed"



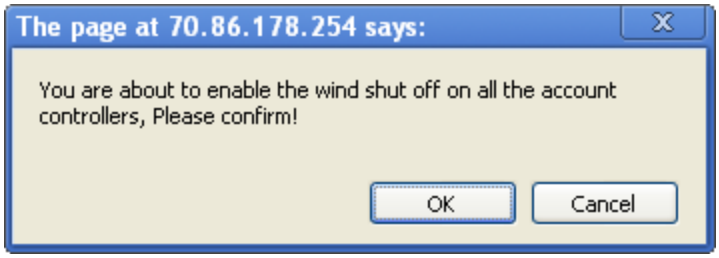
5. Click Save&Download
6. Repeat for each program you wish to be selectively shut down using this feature
7. Repeat for each controller

After the programs have been assigned, you can disable the selected programs by using the Wind Shut Down feature for multiple controllers or individual controllers.

To enable Wind Shut Down on multiple controllers:

1. Choose which group of controllers you want to shut the irrigation off on
    a. This can be done on all the controllers on the system, by account or by ET Zone
    b. Review section 7.1 if necessary
2. At the top of the main screen, select

, then click Set

3. 
The page at 70.86.178.254 says:
You are about to enable the wind shut off on all the account controllers, Please confirm!
OK
Cancel
4. Click OK
5. Click

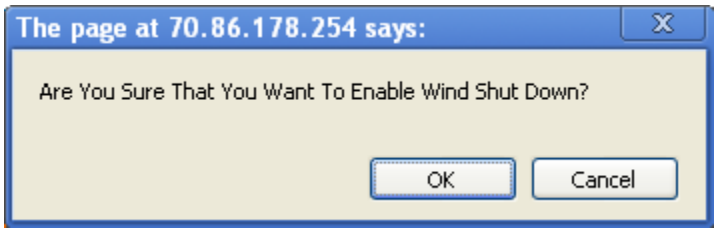
to confirm all irrigation is disabled (Review Section 4 if necessary)

To enable irrigation on all multiple controllers, follow the same steps, but do the opposite commands.

You can also enable Wind Shut Down on individual controllers.

1. Click on the controller icon
2. Click the

tab
3. Click

4. 

5. Click OK

To turn off Wind Shut Down on individual controllers, follow the same steps but do the opposite commands.